



Autogas installations



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STAG UNLIMITED OPPORTUNITIES

INNOVATION

The car industry is our passion. Apart from this passion we are enthusiastic about various technologies and design state-of-the-art propulsion systems powered by alternative energy sources. The products we deliver - electronic components – are top-quality, intelligent solutions designed for cars fitted with LPG systems. Thanks to the cutting-edge technology and high-precision engineering our controllers are regarded as reliable components by millions of customers across the globe. **STAG** electronic components are most frequently chosen solutions for LPG systems in the market.



GREENCARINDUSTRY

But there's more than reliability. It is equally important to be environmentally conscious. Each time we deploy a new product we pay great attention to its impact on the natural environment. Our own R&D Department allows us not only to upgrade our products, but also to comply with all the European quality and environmental protection standards. Harnessing alternative sources of energy is undoubtedly a healthier and more environmentally-friendly way of using cars.



CHOICE

We do our best to satisfy even the most demanding customers. Therefore we have developed a unique portfolio of LPG system products, which are both versatile and customized to suit the needs of individual customers. We have products for everyone.

2

ECONOMY LINE

This line of controllers "This car is a present is designed for owners from my parents. I use it of cars manufactured to get to the university, in mid 90's and 00's. I have plenty of other who like economical things to pay for, so I and affordable driving.

> - **STAG-200-4**. It was like hitting the bull's eye The car drives perfectly, and money."

affordable option

Marcin. Student from Cracow, Poland







STANDARD LINE

This line of controllers is designed for cars manufactured a few years ago, featuring a simple engine management system, with relatively little technological requirements as regards LPG systems. This controller will work equally well with modern cars. This is a

ption of **STAG-4 PLUS**

from Gdańsk, Poland

This line of controllers is designed for modern cars owned by drivers who look for good-quality and reasonably priced solu-

tions.

The characteristic feature of this line of controllers is broad capabilities of the operating software.

PLUS LINE

"I don't like to risk when it comes to my family. I'd rather avoid unpleasant surprises and I think the high quality should be the choice. That's why I choose STAG-300 ISA2.

The Piotrowski family from Sandomierz Poland



ISA2



PREMIUM LINE

This line of controllers is designed for state-of-the-art cars with technical requirements calling for cutting-edge controllers, featuring the Smart Autoadaptation System. Drivers who choose this line of products demand quality, prestige and reliability.

"I work and travel a lot. My car is an important thing to me, I spend a lot of time driving. I must be absolutely sure that it is in working condition and does not fail me on the road, nor in rough terrain. I choose top-class cars, therefore I decided to buy a highlyadvanced LPG system. It will ensure comfortable driving and reliability. All in all, I love comfort and top quality, thus I invest only in the best solutions I have chosen **STAG-300 premium**."

Monika, Brand Manager from Warsaw, Poland



The Line of controllers designed for high standard vehicles equipped with 4 cylinder Direct Petrol Injection engines from the Volkswagen group . Vehicles equipped with STAG 400 DPI become more economical and environmentally friendly. STAG 400 DPI is the only controller on the market guaranteeing precise gas injection within full RPM range.

"I wanted to make my Volkswagen more economical, but it took a long time to find a good system for direct petrol injection. Finally I did, and now I have a new generation LPG controller **STAG 400 DPI**. I'm really glad I found

Łukasz Businessman from Zielona Góra. Poland









perfect line for drivers

with economical driv-

ing in mind, who also

demand good quality.

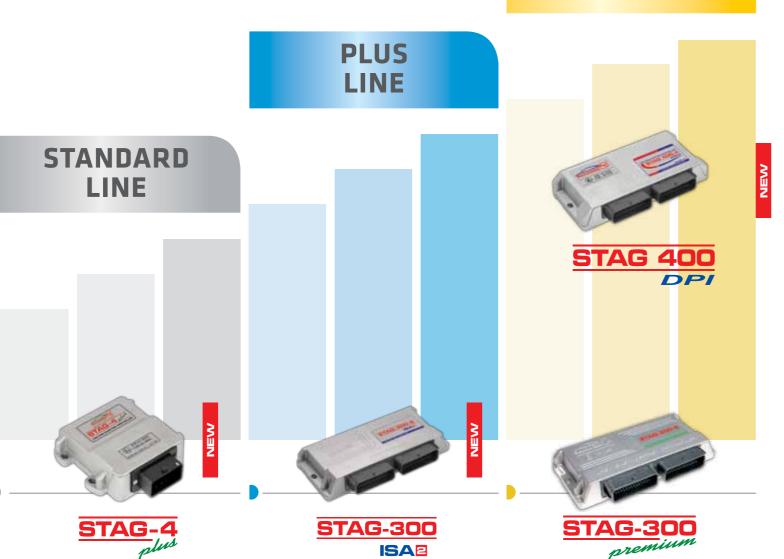


ECONOMY

LINE

STAG-200

PREMIUM LINE



ISA2

ECONOMY STANDARD LINE

PLUS LINE

PREMIUM LINE

Model Year	Cylinders	STAG- 200-4	STAG-4 PLUS	STAG- 300-4 ISA2	STAG- 300-6 ISA2	STAG- 300-8 ISA2	STAG- 300-4 <i>premium</i>	STAG- 300-6 <i>premium</i>	STAG- 300-8 <i>premium</i>	STAG 400.4 DPI
									-	
	3	•	•	0	0	0	-	-	-	-
	4	•	•	0	0	0	-	-	-	-
1990 and older	5	÷	-	-	0	0	-	-	-	-
	6	÷	-	-	0	0	-	-	-	-
	8	÷	-	-	÷	0	-	-	-	-
	3	0	•	•	0	0	-	-	-	-
	4	0	•	•	0	0	-	-	-	-
1991 -2002	5	÷	-	-	•	0	-	-	-	-
	6	+	-	-	•	0	-	-	-	-
	8	-	-	-	-	•	-	-	-	-
	3	-	0	0	0	0	•	0	0	-
	4	-	0	0	0	0	•	0	0	-
2003 and	5	-	-	-	0	0	-	•	0	-
newer	6	-	-	-	0	0	-	•	0	-
	8	-	-	-	-	0	-	-	•	-
2004 and newer*	4	-	-	-	-	-	-	-	-	•

Recommended

^{*}Designed for vehicles equipped with 4 cylinder Direct Petrol Injection engines from the Volkswagen group 2004 and newer.

DESCRIPTION OF SELECTED COMPONENTS OF A LPG SYSTEM



STAG-300 Premium controller

Gas injectors

Solenoid Value

Petrol/Gas changeover switch with indicator

PS 02 pressure sensor

2. STAG gas injection controllers

A state-of-the-art, highly advanced electronic component allows for interoperation with the most demanding petrol injection controllers. It controls gas injection based on sequential or non-sequential petrol injection system.

- Key benefits of the offered controllers:

 Smooth and safe driving

 Can be fitted in cars with 1-8 cylinder engines, including turbocharged and HEMI engines
- Complies with the strict Euro 5 standard
- Easy installation and operation of the calibration system
- 3D graphical map
- Performance of cars featuring STAG components are almost identical to those running on petrol

AC S.A's portfolio includes the following controller models: STAG 400 DPI, STAG-300 premium, STAG-300 ISA2, STAG-4 PLUS, STAG-200



3. Injection rail

It is designed for high-precision LPG/CNG gas injection in the volatile phase into the engine cylinders. **AC S.A. uses the following injection rails:**

- Valtek
- Valtek type 34
- Rail IG1/AC
- Magic Jet
- OMVL REG FAST



8. AC R01 Reducer

The reducer is designed for automotive sequential gas injection systems. It converts the liquid gas into vaporized form. **The advantages of the reducer:**

- modern design solutions,
- small size easy installation,
- rotary connection terminals, • stable performance parameters,
- working pressure can be finely adjusted,
- fast switching to gas mode







Innovative Autogas controller for Direct Petrol Injection engines.

First and only controller on the market guaranteeing precise gas injection within full RPM range.



FUNCTIONS OF NEW CONTROLLER STAG 400 DPI

		STAG 400 DPI
_		•
Design	Aluminum, water-resistant housing	•
De	Built-in advanced petrol injector emulator	•
	Precise gas injection within full RPM range	•
S	High-precision gas dosing based on engine's RPM	
Functional features	Maintaining key engine performance parameters: HP, torque, RPM on exactly the same level as in the case of petrol injection	•
l fe	Auto-adjustment of gas temperature and pressure	•
iona	Automatic changeover to petrol on empty tank	•
ınct	Automatic changeover to gas	•
正	Reading ECU adjustments	•
	Gas system inspection reminders	•
OU		
ırati	Intuitive controller calibration	•
calib	Precise view of working parameters on the oscilloscope	•
pue	Aligning the mixture ratio based on information of petrol injection times	•
ion	Communication with every OBD II and EOBD system	•
allat	Fixed connection with the car's OBD, with no impact on the OBD system operation, allowing for connection of testing and diagnostic equipment, etc.	•
Installation and calibration	Working parameters can be adjusted manualny	•
ass	Additional 3D graphical map	•
Software Features	New CNG propulsion algorithms	•
S PO	Setting maximum engine overload for gas propulsion	•
	Standard and turbocharged engine types	•

Available

COMPARISON OF CONTROLLERS

Communication with every OBD II and EOBD system (not only CAN)

STAG-300 STAG-300 ISA2 premium

STAG-4 PLUS

STAG-200

		STAG-200	STAG-4 PLUS	STAG-300 ISA2	STAG-300
			PLOS	ISAE	preman
nstallation and calibration	Fixed connection with the car's OBD, with no impact on the OBD system operation, allowing for connection of testing and diagnostic equipment, etc.	-	-	-	•
stallati calibra	Working parameters can be adjusted manually	•	•	•	•
<u></u>	Additional 3D graphical map	-	•	•	•
	New CNG propulsion algorithms	•	•	•	•
	Separate injector adaptation into BANK 1 and BANK 2	-	-	-	•
	Engine's RPM signal filters	•	•	•	•
	Compliance with various types of injection controllers (sequential, semi-sequential, full group)	•	•	•	•
res	Setting maximum engine overload for gas propulsion	-	•	•	•
eatu	Standard and turbocharged engine types	•	•	•	•
are fo	Mazda [™] Leaning option	-	•	•	•
Software features	Postinjection cut-off threshold adjustment	-	•	•	•
So	Smart Autoadaptation System ISA2(on-going monitoring of STFT and LTFT adjustment)	-	-	-	•
	Improved interoperation with petrol propulsion systems: full group and semi-sequential systems.	-	•	•	•
	New feature "Injection Controller Type" – allows for fitting injectors, e.g. Valtek 3 Ohm into full-group controller engines	-	•	•	•
	Fuel and Gas 3D map	-	-	•	•
	Warranty	3 years*	3 years*	3 years*	3 years*

 $[\]ensuremath{^{\star}}$ From the date of manufacture and 2 years from the date of installation

Availab

Not available

ECONOMY LINE	Controller			Injectors				Redu			Har- ness	HP of the	Volatile phase	Pressure sensor	Package
	Controller	VALTEK	RAIL IG1/AC	MAGIC JET	VALTEK TYP 34	OMVL REG FAST	TO- MASE- TO	ZAVOLI	KOLTEC	AC-R01 150	VALTEK EU- ROPA	engine with reducer	gas filter		
MINIKIT AC 06 (200-4VE/T/V+F) UP TO 90 KM	STAG-200-4	•	-	-	-	-	•	-	-	-	•	90KM	•	•	•
MINIKIT AC 29 (200-4VE/T/V3+F) UP TO 90 KM	STAG-200-4	•(1)	-	-	-	-	•	-	-	-	•	90KM	•	•	•
MINIKIT AC 0607(200-4VE/T/R+F) UP TO 90 KM	STAG-200-4	-	•	-	-	-	•	-	-	-	•	90KM	•	•	•
MINIKIT AC 2907 (200-4VE/T/R3+F) UP TO 90 KM	STAG-200-4	-	● (2)	-	-	-	•	-	-	-	•	90KM	•	•	•
MINIKIT AC 48 (200-4VE/Z/V+F) UP TO 150 KM	STAG-200-4	•	-	-	-	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC 4807 (200-4VE/Z/R+F) UP TO 150 KM	STAG-200-4	-	•	-	-	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC 72 (200-4VE/-/V)	STAG-200-4	•	-	-	-	-	-	-	-	-	•	-	-	•	•
MINIKIT AC 71 (200-4VE/-/V3)	STAG-200-4	●(1)	-	-	-	-	-	-	-	-	•	-	-	•	•
MINIKIT AC 7207 (200-4VE/-/R)	STAG-200-4	-	•	-	-	-	-	-	-	-	•	-	-	•	•

- Available in the MINIKIT Not available in the MINIKIT
- ●(1) A Valtec injector for a 3-cylinder engine●(2) A Rail IG1/AC for a 3-cylinder engine

- ●(3) The MINIKIT includes 2 Rail IG1/AC injectors
- ●(4) The MINIKIT includes 2 Zavoli reducers
- ●(5) The MINIKIT includes 2 volatile phase gas filters

STANDARD LINE				Injectors				Redu	icers		Har- ness	HP of the	Volatile	Pressure	Package
	Controller	VALTEK	RAIL IG1/AC	MAGIC JET	VALTEK TYP 34	OMVL REG FAST	TO- MASE- TO	ZAVOLI	KOLTEC	AC-R01 150	VALTEK EU- ROPA	engine with reducer	phase gas filter	sensor	
MINIKIT AC B31 (STAG4 PLUS VE/T/V+F)	STAG 4 PLUS	•	-	-	-	-	•	-	-	-	•	90KM	•	•	•
MINIKIT AC B3107 (STAG4 PLUS VE/T/R+F)	STAG 4 PLUS	-	•	-	-	-	•	-	-	-	•	90KM	•	•	•
MINIKIT AC B31 MJ (STAG4 PLUS VE/T/MJ+F) UP TO 90KM	STAG 4 PLUS	-	-	•	-	-	•	-	-	-	•	90KM	•	•	•
MINIKIT AC B40109	STAG 4 PLUS	-	-	-	-	•	•	-	-	-	•	90KM	•	•	•
MINIKIT AC B45 (STAG4 PLUS VE/Z/V+F)	STAG 4 PLUS	•	-	-	-	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC B4507 (STAG4 PLUS VE/Z/R+F)	STAG 4 PLUS	-	•	-	-	=	-	•	-	=	•	150KM	•	•	•
MINIKIT AC B45 MJ(STAG4 PLUS VE/Z/MJ+F)	STAG 4 PLUS	-	-	•	=	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC B40409	STAG 4 PLUS	-	-	-	-	•	-	•	-	-	•	150KM	•	•	•
MINIKIT AC B41330 (STAG4 PLUS VE/AC-R01 150/V+F) UP TO 150KM	STAG 4 PLUS	•	-	-	-	-	-	-	-	•	•	150KM	•	•	•
MINIKIT AC B41307 (STAG4 PLUS VE/AC-R01 150/R+F) UP TO 150KM	STAG 4 PLUS	-	•	-	-	-	-	-	-	•	•	150KM	•	•	•
MINIKIT AC B80 (STAG4 PLUS VE/-/V)	STAG 4 PLUS	•	-	-	-	-	-	-	-	-	•	-	-	•	•
MINIKIT AC B8007 (STAG4 PLUS VE/-/R)	STAG 4 PLUS	-	•	-	-	-	-	-	-	-	•	-	-	•	•
MINIKIT AC B 80MJ (STAG4 PLUS VE/-/MJ)	STAG 4 PLUS	-	-	•	-	-	-	-	-	-	•	-	-	•	•

PLUS LINE				Injectors				Redu	icers		Har- ness	HP of	Volatile	Pressure	Package
	Controller	VALTEK	RAIL IG1/AC	MAGIC JET	VALTEK TYP 34	OMVL REG FAST	TO- MASE- TO	ZAVOLI	KOLTEC	AC-R01 150	VALTEK EU- ROPA	the engine with reducer	phase gas filter	sensor	
MINIKIT AC 31 PLUS (STAG 300-4 ISA2 VE/T/V+F) UP TO 90KM	STAG-300-4 ISA2	•	-	-	-	-	•	-	-	-	•	90KM	•	•	•
MINIKIT AC 3134 (STAG 300-4 ISA2 VE/T/ V34+F) UP TO 90KM	STAG-300-4 ISA2	-	-	-	•	-	•	-	-	-	•	90KM	•	•	•
MINIKIT AC 3107 PLUS (STAG 300-4 ISA2 VE/T/R+F) UP TO 90KM	STAG-300-4 ISA2	-	•	-	-	-	•	-	-	-	•	90KM	•	•	•
MINIKIT AC 3107X PLUS (STAG 300-4 ISA2 VE/T/Rx2+F) for Boxer engines	STAG-300-4 ISA2	-	● (3)	-	-	-	•	-	-	-	•	90KM	•	•	•
MINIKIT AC 31MJ PLUS (STAG 300-4 ISA2 VE/T/MJ+F) UP TO 90KM	STAG-300-4 ISA2	-	-	•	-	-	•	-	-	-	•	90KM	•	•	•
MINIKIT AC C40109	STAG-300-4 ISA2	-	-	-	-	•	•	-	-	-	•	90KM	•	•	•
MINIKIT AC 45 PLUS (STAG 300-4 ISA2 VE/Z/V+F) UP TO 150 KM	STAG-300-4 ISA2	•	-	-	-	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC 4534 (STAG 300-4 ISA2 VE/Z/ V34+F) UP TO 150 KM	STAG-300-4 ISA2	-	-	-	•	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC 4507 PLUS (STAG 300-4 ISA2 VE/Z/R+F) UP TO 150KM	STAG-300-4 ISA2	-	•	-	-	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC 45MJ PLUS (STAG 300-4 ISA2 VE/Z/MJ+F) UP TO 150 KM	STAG-300-4 ISA2	-	-	•	-	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC C 40409	STAG-300-4 ISA2	-	-	-	-	•	-	•	-	-	•	150KM	•	•	•
MINIKIT AC C41330 (STAG 300-4 ISA2 VE/ AC-R01 150/V+F) UP TO 150KM	STAG-300-4 ISA2	•	-	-	-	-	-	-	-	•	•	150KM	•	•	•
MINIKIT AC C41307 (STAG 300-4 ISA2 VE/ AC-R01 150/R+F) UP TO 150KM	STAG-300-4 ISA2	-	•	-	-	-	-	-	-	•	•	150KM	•	•	•
MINIKIT AC C41309 (STAG 300-4 ISA2 VE/ AC-R01 150/RJ+F) UP TO 150KM	STAG-300-4 ISA2	-	-	-	-	•	-	-	-	•	•	150KM	•	•	•
MINIKIT AC 80 PLUS (STAG 300-4 ISA2 VE/-/V)	STAG-300-4 ISA2	•	-	-	-	-	-	-	-	-	•	-	-	•	•

MINIKIT PACKAGE

PLUS LINE	Controller			Injectors				Redu	icers		Har- ness	HP of	Volatile	Pressure	Package
	Controller	VALTEK	RAIL IG1/AC	MAGIC JET	VALTEK TYP 34	OMVL REG FAST	TO- MASE- TO	ZAVOLI	KOLTEC	AC-R01 150	VALTEK EU- ROPA	the engine with reducer	phase gas filter	sensor	
MINIKIT AC 8034 (STAG 300-4 ISA2 VE/-/V34+F)	STAG-300-4 ISA2	-	-	-	•	-	-	-	-	-	•	-	•	•	•
MINIKIT AC 8007 PLUS (STAG 300-4 ISA2 VE/-/R)	STAG-300-4 ISA2	-	•	-	-	-	-	-	-	-	•	-	-	•	•
STAG 300-4 ISA2 VE/-/- SET	STAG-300-4 ISA2	-	-	-	-	-	-	-	-	-	•	-	-	•	•
MINIKIT AC 38 PLUS (STAG 300-6 ISA2 VE/K/V+F) UP TO 200KM	STAG-300-6 ISA2	•	-	-	-	-	-	-	•	-	•	200KM	•	•	•
MINIKIT AC 3834 (STAG 300-6 ISA2 VE/K/ V34+F) UP TO 200KM	STAG-300-6 ISA2	-	-	-	•	-	-	-	•	-	•	200KM	•	•	•
MINIKIT AC 3807 PLUS (STAG 300-6 ISA2 VE/K/R+F) UP TO 200KM	STAG-300-6 ISA2	-	•	-	-	-	-	-	•	-	•	200KM	•	•	•
MINIKIT AC 46 PLUS (STAG 300-6 ISA2 VE/Z/V+F) UP TO 150KM	STAG-300-6 ISA2	•	-	-	-	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC 4634 (STAG 300-6 ISA2 VE/Z/ V34+F) UP TO 150KM	STAG-300-6 ISA2	-	-	-	•	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC 4607 PLUS (STAG 300-6 ISA2 VE/Z/R+F) UP TO 150 KM	STAG-300-6 ISA2	-	•	-	-	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC 46MJ PLUS (STAG 300-6 ISA2 VE/Z/MJ+F) UP TO 150 KM	STAG-300-6 ISA2	-	-	•	-	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC 4607Z PLUS (STAG 300-6 ISA2 VE/ZX2/R+F)	STAG-300-6 ISA2	-	•	-	-	-	-	●(4)	-	-	•	300KM	•	•	•
MINIKIT AC C60409	STAG-300-6 ISA2	-	-	-	-	•	-	•	-	-	•	150KM	•	•	•
MINIKIT AC C61330 (STAG 300-6 ISA2 VE/AC R-01150/V+F) UP TO 150KM	STAG-300-6 ISA2	•	-	-	-	-	-	-	-	•	•	150KM	•	•	•
MINIKIT AC C61307 (STAG 300-6 ISA2 VE/AC R-01150/R+F) UP TO 150KM	STAG-300-6 ISA2	-	•	-	-	-	-	-	-	•	•	150KM	•	•	•
MINIKIT AC C61309	STAG-300-6 ISA2	-	-	-	-	•	-	-	-	•	•	150KM	•	•	•

PLUS LINE				Injectors				Redu	ıcers		Har- ness	HP of the	Volatile	Pressure	Package
	Controller	VALTEK	RAIL IG1/AC	MAGIC JET	VALTEK TYP 34	OMVL REG FAST	TO- MASE- TO	ZAVOLI	KOLTEC	AC-R01 150	VALTEK EU- ROPA	engine with reducer	phase gas filter	sensor	
MINIKIT AC 81 PLUS (STAG 300-6 ISA2 VE/-/V)	STAG-300-6 ISA2	•	-	-	-	-	-	-	-	-	•	-	-	•	•
MINIKIT AC 8134 (STAG 300-6 ISA2 VE/-/V34+F)	STAG-300-6 ISA2	-	-	-	•	-	-	-	-	-	•	-	•	•	•
MINIKIT AC 8107 PLUS (STAG 300-6 ISA2 VE/-/R)	STAG-300-6 ISA2	-	•	-	-	-	-	-	-	-	•	-	-	•	•
MINIKIT AC 81MJ PLUS (STAG 300-6 ISA2 VE/-/MJ)	STAG-300-6 ISA2	-	-	•	-	-	-	-	-	-	•	-	-	•	•
STAG 300-6 ISA2 VE/-/- SET	STAG-300-6 ISA2	-	-	-	-	-	-	-	-	-	•	-	-	•	•
MINIKIT AC 42 PLUS (STAG 300-8 ISA2 VE/K/V+F) UP TO 200 KM	STAG-300-8 ISA2	•	-	-	-	-	-	-	•	-	•	200KM	•	•	•
MINIKIT AC 4234 (STAG 300-8ISA2 VE/K/ V34+F) UP TO 200 KM	STAG-300-8 ISA2	-	-	-	•	-	-	-	•	-	•	200KM	•	•	•
MINIKIT AC 4207 PLUS (STAG 300-8 ISA2 VE/K/R+F) UP TO 200 KM	STAG-300-8 ISA2	-	•	-	-	-	-	-	•	-	•	200KM	•	•	•
MINIKIT AC 42MJ PLUS (STAG 300-8 ISA2 VE/K/MJ+F) UP TO 200 KM	STAG-300-8 ISA2	-	-	•	-	-	-	-	•	-	•	200KM	•	•	•
MINIKIT AC 4734Z (STAG 300-8 ISA2 VE/Zx2/ V34+F) UP TO 300KM	STAG-300-8 ISA2	-	-	-	•	-	-	● (4)	-	-	•	300KM	•	•	•
MINIKIT AC 4707Z PLUS (STAG 300-8 ISA2 VE/Zx2/R+F) UP TO 300KM	STAG-300-8 ISA2	-	•	-	-	-	-	•(4)	-	-	•	300KM	•	•	•

MINIKIT PACKAGE

PLUS LINE				Injectors				Redu	ıcers		Har- ness	HP of	Volatile	Pressure	Package
	Controller	VALTEK	RAIL IG1/AC	MAGIC JET	VALTEK TYP 34	OMVL REG FAST	TO- MASE- TO	ZAVOLI	KOLTEC	AC-R01 150	VALTEK EU- ROPA	the engine with reducer	phase gas filter	sensor	
MINIKIT AC 82 PLUS (STAG 300-8 ISA2 VE/-/V)	STAG-300-8 ISA2	•	-	-	-	-	-	-	-	-	•	-	-	•	•
MINIKIT AC 8234 (STAG 300-8 ISA2 VE/-/V34+F)	STAG-300-8 ISA2	-	-	-	•	-	-	-	-	-	•	-	•	•	•
MINIKIT AC 8207 PLUS (STAG 300-8 ISA2 VE/-/R)	STAG-300-8 ISA2	-	•	-	-	-	-	-	-	-	•	-	-	•	•
MINIKIT AC 82MJ PLUS (STAG 300-8 ISA2 VE/-/MJ)	STAG-300-8 ISA2	-	-	•	-	-	-	-	-	-	•	-	-	•	•
MINIKIT AC 80009	STAG-300-8 ISA2	-	-	-	-	•	-	-	-	-	•	-	-	•	•
STAG 300-8 ISA2 VE/-/- SET	STAG-300-8 ISA2	-	-	-	-	-	-	-	-	-	•	-	-	•	•
MINIKIT AC 3307 D PLUS (STAG 300-4 ISA2 VE/K/R+F) UP TO 200 KM	STAG-300-4 ISA2	-	•	-	-	-	-	-	•	-	•	200KM	•	•	•
MINIKIT AC 3307X D PLUS (STAG 300-4 ISA2 VE/K/Rx2+F) UP TO 200 KM	STAG-300-4 ISA2	-	●(3)	-	-	-	-	-	•	-	•	200KM	•	•	•
MINIKIT AC 4507 D PLUS (STAG 300-4 ISA2 VE/Z/R+F) UP TO 150 KM	STAG-300-4 ISA2	-	•	-	-	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC 3807 D PLUS (STAG 300-6 ISA2 VE/K/R+F) UP TO 200 KM	STAG-300-6 ISA2	-	•	-	-	-	-	-	•	-	•	200KM	•	•	•
MINIKIT AC 4607 D PLUS (STAG 300-6 ISA2 VE/Z/R+F) UP TO 150 KM	STAG-300-6 ISA2	-	•	-	-	-	-	•	-	-	•	150KM	•	•	•
MINIKIT AC 4607ZD PLUS (STAG 300-6 ISA2 VE/Zx2/R+Fx2)	STAG-300-6 ISA2	-	•	-	-	-	-	● (4)	-	-	•	300KM	● (5)	•	•
MINIKIT AC 4207 D PLUS (STAG 300-8 ISA2 VE/K/R+F) UP TO 200 KM	STAG-300-8 ISA2	-	•	-	-	-	-	-	•	-	•	200KM	•	•	•
MINIKIT AC 4707ZD PLUS (STAG 300-8 ISA2 VE/Zx2/R+Fx2)	STAG-300-8 ISA2	-	•	-	-	-	-	●(4)	-	-	•	300KM	● (5)	•	•

MINIKIT PACKAGE

	PREMIUM LINE				Injectors				Redu	ıcers		Har- ness	HP of	Volatile	Pressure	Package
		Controller	VALTEK	RAIL IG1/AC	MAGIC JET	VALTEK TYP 34	OMVL REG FAST	TO- MASE- TO	ZAVOLI	KOLTEC	AC-R01 150	VALTEK EU- ROPA	the engine with reducer	phase gas filter	sensor	3
	NIKIT AC 3134P (STAG 300-4 Premium /T/V34+F) UP TO 90KM	STAG-300-4 premium	-	-	-	•	-	•	-	-	-	•	90KM	•	•	•
MII	NIKIT AC D40109	STAG-300-4 premium	-	-	-	-	•	•	-	-	-	•	90KM	•	•	•
	NIKIT AC 4534P (STAG 300-4 Premium /Z/V34+F) UP TO 150KM	STAG-300-4 premium	-	-	-	•	-	-	•	-	-	•	150KM	•	•	•
MII	NIKIT AC D40409	STAG-300-4 premium	-	-	-	-	•	-	•	-	-	•	150KM	•	•	•
	NIKIT AC D41334 (STAG 300-4 Premium VE/AC 1150/V34+F) UP TO 150KM	STAG-300-4 premium	-	-	-	•	-	-	-	-	•	•	150KM	•	•	•
MII	NIKIT AC D41309	STAG-300-4 premium	-	-	-	-	•	-	-	-	•	•	150KM	•	•	•
	NIKIT AC 8034P 'AG 300-4 Premium VE/-/V34+F)	STAG-300-4 premium	-	-	-	•	-	-	-	-	-	•	-	•	•	•
	NIKIT AC 3834P (STAG 300-6 Premium /K/V34+F) UP TO 200KM	STAG-300-6 premium	-	-	-	•	-	-	-	•	-	•	200KM	•	•	•
	NIKIT AC 4634P (STAG 300-6 Premium /Z/V34+F) UP TO 150KM	STAG-300-6 premium	-	-	-	•	-	-	•	-	-	•	150KM	•	•	•
MI	NIKIT AC D60409	STAG-300-6 premium	-	-	-	-	•	-	•	-	-	•	150KM	•	•	•
	NIKIT AC D61334 (STAG 300-6 Premium VE/AC 1150E/V34+F) UP TO 150KM	STAG-300-6 premium	-	-	-	•	-	-	-	-	•	•	150KM	•	•	•
MI	NIKIT AC D61309	STAG-300-6 premium	-	-	-	-	•	-	-	-	•	•	150KM	•	•	•
	NIKIT AC 8134P 'AG 300-6 Premium VE/-/V34+F)	STAG-300-6 premium	-	-	-	•	-	-	-	-	-	•	-	•	•	•
	NIKIT AC 4234P (STAG 300-8 Premium /K/V34+F) UP TO 200KM	STAG-300-8 premium	-	-	-	•	-	-	-	•	-	•	200KM	•	•	•
	NIKIT AC 4734Z P AG 300-8 Premium VE/Zx2/V34+F) DO 300KM	STAG-300-8 premium	-	-	-	•	-	-	•(4)	-	-	•	300KM	•	•	•
	NIKIT AC 8234P 'AG 300-8 Premium VE/-/V34+F)	STAG-300-8 premium	-	-	-	•	-	-	-	-	-	•	-	•	•	•
MII	NIKIT AC D80009	STAG-300-8 premium	-	-	-	-	•	-	-	-	-	•	-	•	•	•

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STAG 400 DPI





Stag 400 DPI is designed for high standard Direct Petrol Injection vehicles equipped with 4 cylinder engines from the Volkswagen Group.

In 2011, the AC company will launch a STAG 400 DPI controller for direct injection engines of all the key automobile manufacturers. As the only controller on the market, STAG 400 DPI works perfectly with the direct petrol injection technology, which is more and more commonly used in VW Group modern petrol engines. Owing to that fact, the use of cars equipped with direct injection engines and the STAG 400 DPI gas installation becomes more economical and ecological.

STAG 400 DPI is manufactured using the latest technology and top quality electronic components and is equipped with innovative software with a number of practical functions.

The use of STAG 400 DPI ensures a comfortable, dynamic and economical ride with a full range of parameters, as guaranteed by the manufacturer.

The controller has an integrated adapter, which enables communication with the petrol ECU via the following OBD II/EOBD protocols:

- ISO-15765
- ISO-14230
- ISO-9141

Advantages of STAG 400 DPI:

- Accurate gas dosage within the entire rotational speed range
- Maintaining the key operating parameters of the engine at the same level as for petrol fuelling
- Innovative gas dosage method ensuring stable engine operation
- Imperceptible automatic switching to gas fuelling
- Installation diagram and calibration similar to those in other STAG controllers
- Use of novel tools enabling quick calibration
- Utmost accurate self-calibration
- Built-in OBDII/EOBD adapter

- Enhanced self-diagnosis system
- Embedded petrol pressure emulator
- 3D graphical map
- Control of post-injections
- ECU correct read-out
- View of operating parameters on the oscilloscope
- Clear calibration program

STAG-300 Premium is a new generation controller equipped with Smart Autoadaptation System ISA- SAS. ISA – Smart Autoadaptation System constantly monitors short and long term STFT and LTFT corrections. STAG-300 Premium easily communicates with all OBD II and EOBD auto systems (not only CAN) by the STAG-OBD ADAPTER which aside from standard parameters enables the read out of your vehicle's ECU corrections. The technology applied in the STAG-300 Premium assures the very precise fuel dosage and optimal fuel mixture injected into the cylinders. The contents of the mixture is configured not only based on the petrol injection timing as it is in other controllers, but it is precisely adopted to current petrol ECU corrections while driving on gas (not only during the calibration). STAG-300 Premium was created with accordance to plug'n'drive, user friendly technology, which makes it very simple to install and use. After the first calibration during the installation, STAG-300 Premium self-adopts in real time during standard vehicle usage. This guaranties the same precise efficiency and proficiency on LPG/CNG as it is on Petrol. Only STAG-300 Premium can guarantee the fullest, flawless integration with the vehicle's factory settings. STAG-300 Premium is designed for all vehicles with 1 to 8 cylinder petrol engines. The integrated petrol injection emulator has a Europa/Bosch type connection. The controller is compatible with AcGasSynchro software. Vehicles equipped with STAG-300 Premium fulfill the EURO 5 emission norms.

Advantages of STAG-300 Premium:

- Permanent, non interference connection with vehicles OBD, allowing connections of testers, diagnostic tools etc.
- It's an expansion of well established STAG-300
- Minimizes the risk of defects associated with imprecise manual calibration
- Separate adaptation for BANK 1 and BANK 2 (programming option to assign gas injectors belonging to BANK 1 or BANK 2)
- Keeps the key engine settings such as power, torque identical to the petrol settings
- Fulfills the EURO 5 emission norms
- 3 year manufacturers warranty

Our Minikit with STAG-300 Premium electronics includes high quality parts supplied by renowned producers such as new injection rail type 34 from Valtek. Valtek's new injection rail type 34 is characterized by quick reaction to the injection signal which allows precise gas dosage and improved rail design makes the injector type 34 more durable (increased life-span up to 50 thousand km).

The microprocessor Sequential Gas Injection Controller STAG-300 ISA2 has evolved from the tried and tested, and reliable system STAG-300 Plus. The controller has been upgraded by fitting it with the second generation Smart Autoadaptation System ISA2.

The main task of the ISA2 System is the continuous and automatic modification of the gas maps as a function of the engine's rotational

After turning the "Autoadaptation" option on, the collection of petrol map points takes place. Sound signals inform the driver whether or not the map has been collected properly. After the petrol maps have been created, the ISA2 system automatically switches the controller over to gas fuelling. From then on, the self-adaptation is done by continuously comparing the operation of the engine for definite parameters (load and rotational speed) with the previously collected master petrol map of gas. Owing to an innovative solution, the system ISA 2 System provides a more accurate calculation of the dose of the gaseous fuel supplied to the intake manifold of the petrol engine. The controller is equipped with an advanced software. Controller is also capable of serving Wankel rotary piston engines and picking up RPM

signals from the camshaft position sensor

New functions of the controller STAG-300 ISA2:

- Smart Autoadaptation System ISA 2 (automatic modification of the gas map as a function of engine rotational speed)
- Correction of reducer pressure at cut-off
- Injector warm-up at reducer temperatures ≤ 10°C
- Capability to serve Wankel rotary piston engines
- Capability to pick up RPM signals from the camshaft position sensor
- Additional sound signal informing of the engine start in the emergency mode
- Capability to set a maximum number of emergency starts

STAG-300 premium





STAG-300 ISA2



STAG-300

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STAG-4 PLUS



Miniaturized Microprocessor Sequential Gas Injection Controller STAG-4 Plus has evolved from the tried, tested and reliable system STAG-4 and STAG-300 Plus. The modernized controller is fitted with updated software with an additional 3D graphical map, which allows the precise control of gas injection, depending on the rotational speed of the engine.

The device offers the option of additional manual adjustment of the operating parameters, depending on the temperature of the injected gas, as well as a gas injector warm-up option. The controller software upgraded by adding accurate dosing functions for gas injection means that the cars with a system based on the STAG-4 Plus controller meet Euro 5 exhaust emission standards.

Advantages and functions of STAG-4 Plus controller:

- Maintaining the key operating parameters of the engine: power, torque at the same level as for petrol fuelling
 Meets Euro 5 exhaust emission standards
- Reminder to check the gas system.

- Accurate dosing of gas, depending on the rotational speed of the engine
 Allows for the running on gas within the entire engine load range Imperceptible moment of switching to gas fuelling
 3D graphical map adjustment depending on the rotational speed of the engine: graphical and digital visualisation
- Detailed view of operating parameters on the oscilloscope
- Setting post-injection cut-off thresholds
- Gas injector warm-up option
- Engine RPM signal filter
- Standard and turbocharged engines
- New "Injection Control Type" option permits the engines with a full group control to be fitted with e.g. a Valtek 3 Ohm type of
- Mazda leaning
- Option of manual adjustment of operating parameters

STAG-200



STAG-200

Microprocessor based gas injection controller. The device controls gas injection on the basis of sequential or non-sequential petrol injection. Seamless switching from petrol to gas as well as automatic switching to petrol In the event of gas shortage, which is ad-ditionally signalled with a special sound. Control panel with diodes indicating gas level. Computer adjusted parameters. Equipped with internal sequential petrol injection emulator. The device is compatible with 2-6 cylinder petrol engines (in-line or V). Available with various gas injectors tips: RAIL, Valtek, Reg, Zavoli, Matrix. Emulator wires are equipped with Europe/Bosh or universal con-nections.

AC reducers are design for Autogas sequential injection systems. Our reducers guarantees stable injection pressure during the rapid engine load shifts as well as correct gas vaporization in low temperatures. AC reducers are thermally stable and assure constant gas temperature while driving within the city as well as the express way.

Advantages:

- newest design technology
- reduced size
- easy installation in tight spaces
- rotary, movable hose connections
- stable performance
- smooth pressure regulation
- quick Petrol to Gas transition thanks to excellent thermodynamic properties
- the highest quality of materials and accessories guarantees reliability for years to come
- reliable warranty and post-warranty service and continuous availability of spear parts

The purpose of the injection rail is to ensure precise dosage of LPG/CNG in the vaporized phase into the engine cylinders.

The purpose of the injection rail is to ensure precise dosage of LPG/CNG in the vaporized phase into the engine cylinders.

REDUCERS

TOMASETTO, ZAVOLI, KOLTEC, AC R01 150



INJECTION RAIL

VALTEK, RAIL IG1/AC, MAGIC JET, VALTEK TYP. 34. OMVL REG FAST

The advantages of the AC Injection Rail:

- innovative and reliable design,
- the efficiency of the injector is controlled by the diameter of the nozzles at the output,
- easy to install in the engine chamber,
- includes technical solutions which meet the requirements of the EURO 4 standard.



MINIKIT



In order to provide our end customers with products, which meet all their expectations regarding quality and operation, we have created MINIKIT AC.

MINIKIT AC is a LPG kit including STAG controller with wire set and accessories (pressure sensor, two temperature sensors, petrol/LPG switch, LPG level indicator, buzzer, software, and cable ties), reducer, injection rail and gaseous phase filter. In our kits, only those components which have been tested for reliability

and appropriate configuration have been used. As the result of our efforts, we offer a few dozen of MINIKITS AC for 3, 4, 5, 6 and 8-cylinder engines.

When selecting MINIKIT, please make sure that the reducer matches the engine power (sometimes it is necessary to use two reducers).

Currently, in our MINIKITS we use components of the following manufacturers:

- RAIL and VALTEK injectors,
- TOMASETTO reducers (for engines with power up to 90 hp), ZAVOLI reducers (for engines with power up to 150 hp) and KOLTEC reducers (for engines with power up to 200 hp).

If in your purchased kit there are components not marked with the AUTOGAZ AC logo, the kit should not be branded MINIKIT AC. If in doubt, please contact us. Please see the contents of a sample MINIKIT AC on the photograph. In order to obtain a full offer, please contact our Distributors or visit us at www.ac.com.pl.

STAG2-G

Control panel - automatic gas-petrol switch for fuel injection engines. Easily adjustable engine start up time. Diodes indicating operating status as well as gas reserve.

STAG2-G



STAG2-W

Control panel - automatic gas-petrol switch for fuel injection engines. Easily adjustable engine start up time. Diodes indicating operating status as well as gas reserve.

STAG2-W



STAG-L plus

Microprocessor stepper motor controller controls the gas flow on the basis of lambda probe and TPS indications. It simulates lambda probe and is compatible with STAG-2W switch. It signalises lambda probe and TPS status with LEDs. Users may choose the type of Lambda probe and TPS. Simple configuration by means of switches.

STAG-L plus



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STAG-XL



STAG-XL

Microprocessor based stepper motor controller. It controls gas dose with respect to lambda probe readings as well as throttle posintion sensor and simulates lambda probe. Compatible with STAG2-W switch. Parameters adjusted by switches, computer. Operation parameters are comparable to those of STAG-50 and STAG-100 controllers.

STAG-50



STAG-50

Microprocessor based stepper motor controller (actuator). It controls gas dose with respekt to lambda probe readings as well as throttle position sensor and simulates lambda probe. Control panel with diodes indicating gas level. Parameters adjusted by computer.

STAG-100



STAG-100

Microprocessor based stepper motor contro ller (actuator). It controls gas dose with respekt to lambda probe readings as well as throttle position sensor and simulates lambda probe. Single point internal emulator. Control panel with diodes indicating gas level. Parameters adjusted by computer.

STAG-150

Microprocessor based stepper motor controller (actuator). It controls gas dose with respekt to lambda probe readings as well as throttle position sensor and simulates lambda probe. Equipped with internal emulator of four petrol injectors with the option of changing the effective resistance $100/50~\Omega$. Control panel with diodes indicating gas level. Parameters adjusted by computer. Emulator wires are equipped with Europe/Bosh or universal connections.

STAG-150



FPE



Fuel Pressure Emulator FPE, duplicates the correct petrol pressure in vehicles powered by LPG or CNG. While the vehicle is powered by gas, there is a lack of fuel intake from petrol rail and the petrol pressure rises above the base value. Because of that, petrol ECU shortens injection timing and/or reports an error. FPE type EMULATOR should be used to avoid the error report. FPE EMULATOR is necessary in following types of vehicles: Ford: Escape 3.0 V6, 2007 Explorer, 2004 F150, Jaguar X-Type 2.5i V6 24v Multipoint '02 XB (OBD), Jaguar 2,5l and 3,0l, Mustang 4.0, Volvo 5cyl. 2.4l Fuel Pressure Emulator FPE is also compatible with other types of vehicles, not mentioned above, with fuel pressure sensor in petrol rail (mostly Ford group engines).

FLE-P



FLE-P type EMULATOR restores the correct fuel level readout in vehicles powered by LPG/CNG which are equipped with on-board computer, ECU. LPG/CNG installation in vehicles with on-board computer may cause some disturbance with the petrol level indicator because this function is based on the distance traveled and the exploitation conditions (in vehicles NOT equipped with on-board computer, only with the float switch in the tank). Regardless that the vehicle travels on gas, the on-board computer incorrectly signalizes petrol usage which confuses the driver and prevents the accurate assessment of actual petrol level. Installation of FLE-P EMULATOR eliminates the problem and corrects the ECU readout.

STAG-EU4

Range of universal emulators for 4 cylinder engines with multi-point fuel injection. Adjustable effective resistance of emulation $100/50/33 \Omega$. Easily adjustable emulator activation time indicated by LED diode.

The following connections are available for the emulator wires: Europe/Bosh E, Fiat F, Honda H, "Japanese" J, Nissan N or Universal U.

STAG-EU4



STAG2-E4

Emulator for 4 cylinder engines with multipoint fuel injection and internal resistance of 100 Ω . Easily adjustable emulator activation time indicated by LED diode.

The following connections are available or the emulator wires: Europe/Bosh E or Universal U.

STAG2-E4



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STAG2-E6



STAG2-E6

Emulator for 6 cylinder engines with multipoint fuel injection and internal resistance of 100 Ω . Easily adjustable emulator activation time indicated by LED diode.

The following connections are available or the emulator wires: Europe/Bosh E or Universal U.

STAG-E1-2



STAG-E1-2

Universal emulator of 1 or 2 petrol injectors. If the device emulates single petrol injector, emulation resistance may be set to $100/50/33/25~\Omega$. If the device emulates two petrol injectors, emulation resistance may be set to $100/50~\Omega$. Easily adjustable emulator activation time indicated by LED diode. Available with universal connection wires.

STAG-TAP-01

Timing Advance Processor is a microprocessor device used in petrol engine vehicles converted to LPG or CNG. Because gas is a high-octane fuel, gas-air mixture combustion time is longer than petrol-air mixture combustion time. The gas mixture ignition should occur earlier than that of petrol mixture. Installation of Timing Advance Processor improves the flexibility of gas powered engine, reduces fuel consumption and the risk of back-fire in the older generation installations. Timing Advance Processor should be used especially for CNG installations. STAG-TAP-01 is designed for vehicles equipped with the Inductive Crankshaft Sensor.

STAG-TAP-01



STAG-TAP-02

Timing Advance Processor is a microprocessor device used in petrol engine vehicles converted to LPG or CNG. Because gas is a highoctane fuel, gas-air mixture combustion time is longer than petrol-air mixture combustion time. The gas mixture ignition should occur earlier than that of petrol mixture. Installation of Timing Advance Processor improves the flexibility of gas powered engine, reduces fuel consumption and the risk of back-fire in the older generation installations. Timing Advance Processor should be used especially for CNG installations. STAG-TAP-02 is designed for vehicles equipped with Digital Crankshaft Sensor.

STAG-TAP-02



WORKSHOP EQUIPMENT

WPG / WPGH



WPG-2 (90 Ω increasing). Resistance equals 0 Ω with an empty and 90 Ω with a full gastank. WPG-4 (50 $k\Omega$ decreasing) Linear characteristic. Resistance equals 50 $k\Omega$ with an empty and 0 Ω with a full gas tank.



WPGH-1 Non-contact (Hall sensor) gas level indicator with a linear voltage output. Voltage equals 0V with an empty and 5 V with a full gas tank.

WORKSHOP EQUIPMENT

USB INTERFACE/ RS232 INTERFACE



Interface USB, enables communication of STAG-XL, STAG-50 (232/50 adapter required), STAG-100, STAG-150, STAG-200, STAG-300 plus, STAG-300 premium as well as G-2005 tester and DIAG-01 testing device with the computer via USB port

Interface RS 232 enables communication of STAG-XL, STAG-50 (232/50 adapter required), STAG-100, STAG-150, STAG-200, STAG-300 plus, STAG-300 premium as well as G-2005 tester and DIAG-01 testing device with the computer via COM serial port.

SXC 1011 Diagnostic Code Scanner is a reliable diagnostic tool for EOBD and OBD II recommended for LPG/CNG installation shops. Diagnostic Code Scanner easily retrives trouble codes from your vehicle's computer which occur after detaching sensors durign the installation. It also correctly diagnoses errors during LPG/CNG installation service.

Interface BLUETOOTH allows wireless Communications between STAG-200, STAG-4, STAG-300 plus, STAG-300 premium and

Advantages of SXC 1011 Diagnostic Code Scanner:

- faultless error diagnosis
- high technology allows quick and easy elimination of trouble codes
 compatibility with all available OBD communication protocols
- high workmanship quality for reasonable price
- supplied by engine diagnostic connector (no other supply needed)
- plug and play operation
- free of charge software updating through Internet and ability to add new brands
- easy to read large screen
- quick installation diagnostics

SXC 1011 SCANNER



BLUETOOTH INTERFACE



your vehicle's computer equipped with BLUETOOTH module.

WORKSHOP EQUIPMENT

AC S.A. IN THE WORLD

DATA RECORDER



Data Recorder constantly registers the information from your engine and it is an irreplaceable tool in detecting flaws and errors.

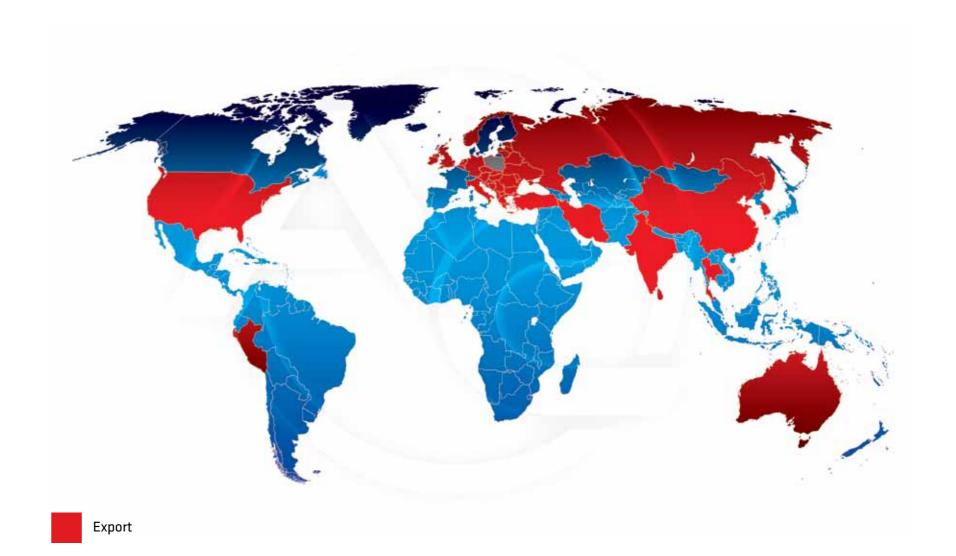
- Automatically registers oscilloscope data during driving
 Easy registration of flaws and errors
 Allows quick and accurate fault detection
 Works as external hard-drive in your PC
 Allows you to save the data to your PC
 2GB internal memory (can be extended to 4GB)
 Easy to install

CONTROLLER CONNECTION ADAPTER



Controller connection adapter allows you to switch to different type of controller without changing the whole wire set. It is a practical solution if you want to switch from STAG-4 to STAG-300 Plus and vice-versa.

We offer the following adapters; STAG-4 to STAG-300 Plus, STAG-300 Plus to STAG-4.



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25 lat doświadczenia

25 years of experience



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